



## Urban Water TMU - October 2022

### News

*Join Urban Water at AIMday Water 2022*



Academic Industry Meeting day, or AIMday™, is an *excellent* opportunity to understand organizations' pressing water challenges and concerns and bring exciting new research projects to life by collaborating with the industry during this ONE

## New Urban Water TMU Website

Check out the new Urban Water TMU website showcasing our Strategic Research Themes and Equity and Inclusion as priorities.

[View Our New Website Here](#)

## Article on Citizen Science Published by HQP

HQP Edward Millar just published an article entitled "Stewarding Relations of Trust: Citizen Scientist Perspectives on Fostering Community Trust in Science" in Environmental Sociology. This work is the product of a collaboration with FOCA.

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## FOCA Media Release

### Apathy to Empathy

Check out the amazing student projects delivered during the Apathy to Empathy: First Nations Water Crisis curriculum in Fall 2021.

*Photo credit: Project created by Amara Digout (Early Childhood Studies '22).*



### About the Apathy to Empathy Curriculum Project

### Webinar on Healthy Water, Healthy City

The Healthy Water, Healthy City Webinar on November 23 at 1pm will showcase Urban Water researchers Claire Oswald, Stephanie Melles, Darko Joksimovic, and Barry Orr hosted by the Urban Innovation Cafe TMU.

November 23, 1 PM to 2 PM

## Healthy Water, Healthy City:

New Studies in Water Management and Freshwater Science

Urban Water TMU:  
Dr. Darko Joksimovic  
Dr. Stephanie Melles  
Barry Orr  
Dr. Claire Oswald



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## Research Proposals

### *Current Funding Calls*

#### [NSERC - Alliance International Program](#)

- The application process, eligibility, and much more!
- Deadline: No deadline (note that you can only apply once as primary applicant or co-applicant in a 12-month period)
- [RSVP for Information Session](#)
  - Speaker: Robert Therrien
  - Date: October 19, 2022 [1-2PM]

[View All SRC Funding Calls](#)

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### *Useful Information for Grant Writing*

*The following is background information to assist in writing grant proposals.*

Water, Energy, and Environment - A Walkthrough of the Current State of Affairs (2022)

[Read Document Here](#)

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## Allyship Network

With equity and community inclusion in mind, Urban Water TMU has developed the Urban Water Allyship Network. Allies aim to support members of the community who are facing discrimination, harassment or

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community, see details below.

For more information, please contact [a11khan@ryerson.ca](mailto:a11khan@ryerson.ca).



[Learn More About the Allyship Initiative](#)

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## Upcoming Urban Water TMU Seminars

**Wednesday November 9, 10-11AM**

Dr. Christian Guzman from the University of Massachusetts Amherst will be joining us virtually to discuss his community-based research on hydrological and geomorphological processes in the Ethiopian Highlands.

[Add this event to your Google Calendar](#)

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**Wednesday December 7, 10-11AM**

Dr. Aashna Sharma from the Wildlife Institute of India will be joining us virtually to discuss her research on freshwater ecology in the Himalayas.

[Add this event to your Google Calendar](#)

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## Full Members of Urban Water TMU

Full Members of Urban Water TMU are researchers highly involved in the Centre and are regular contributors to Urban Water research projects and initiatives.

Affiliate Members are part of the Urban Water network and contribute to specific

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[See Our Full and Affiliate Members](#)

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## Recent Publications of Full Members

Akingbola, S., Fernandes, R., Borden, S. et al. Early identification of a COVID-19 outbreak detected by wastewater surveillance at a large homeless shelter in Toronto, Ontario. *Can J Public Health* (2022). <https://doi.org/10.17269/s41997-022-00696-8>.

Farokh Laqa Kakar, Frances Okoye, Victoria Onyedibe, **Rania Hamza**, Bipro Ranjan Dhar, **Elsayed Elbeshbishy**, Chapter 16 - Climate change interaction with microplastics and nanoplastics pollution, Editor(s): R.D. Tyagi, Ashok Pandey, Patrick Drogui, Bhoomika Yadav, Sridhar Pilli, *Current Developments in Biotechnology and Bioengineering*, Elsevier, 2023, Pages 387-403, ISBN 9780323999083, <https://doi.org/10.1016/B978-0-323-99908-3.00003-8>.

Farokh Laqa Kakar, **Steven N. Liss**, **Elsayed Elbeshbishy**, Impact of solid content on hydrothermal pretreatment of municipal sludge prior to fermentation and anaerobic digestion, *Chemosphere*, Volume 308, Part 3, 2022, 136363, ISSN 0045-6535, <https://doi.org/10.1016/j.chemosphere.2022.136363>.

Frances Okoye, Farokh Laqa Kakar, Victoria Onyedibe, **Rania Hamza**, Bipro Ranjan Dhar, **Elsayed Elbeshbishy**, Chapter 19 - Social aspects of microplastics and nanoplastics, Editor(s): R.D. Tyagi, Ashok Pandey, Patrick Drogui, Bhoomika Yadav, Sridhar Pilli, *Current Developments in Biotechnology and Bioengineering*, Elsevier, 2023, Pages 447-461, ISBN 9780323999083, <https://doi.org/10.1016/B978-0-323-99908-3.00007-5>.

Fries E, Grewal T, **Sühring R**. Persistent, mobile, and toxic plastic additives in Canada: properties and prioritization. *Environ Sci Process Impacts*. 2022 Sep 30. doi: 10.1039/d2em00097k. Epub ahead of print. PMID: 36178267.

Meguel Yousif, Hannah Burdett, **Christopher Wellen**, Sohom Mandal, Grace Arabian, Derek Smith, Ryan J. Sorichetti, An innovative approach to correct data from in-situ turbidity sensors for surface water monitoring, *Environmental Modelling & Software*, Volume 155, 2022, 105461, ISSN 1364-8152, <https://doi.org/10.1016/j.envsoft.2022.105461>.

Santoro, Domenico (London, CA), Mao, Tie (London, CA), Walton, John R. (Colfax, CA, US), Nakhla, George (Woodbridge, CA), **Elbeshbishy, Elsayed** (Mississauga, CA), Jang, EunKyung (London, CA), 2022 METHODS AND SYSTEMS FOR

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<https://www.freepatentsonline.com/y2022/0267183.html>.

Seyed Mohammad Mirsoleimani Azizi, Nervana Haffiez, Basem S. Zakaria, **Elsayed Elbeshbishy**, Bipro Ranjan Dhar, Chapter 15 - Nano- and microplastics as carriers for antibiotics and antibiotic resistance genes, Editor(s): R.D. Tyagi, Ashok Pandey, Patrick Drogui, Bhoomika Yadav, Sridhar Pilli, Current Developments in Biotechnology and Bioengineering, Elsevier, 2023, Pages 361-385, ISBN 9780323999083, <https://doi.org/10.1016/B978-0-323-99908-3.00005-1>.

Tamer Almaaitah, Jennifer Drake, **Darko Joksimovic**; Impact of design variables on hydrologic and thermal performance of green, blue-green and blue roofs. Blue-Green Systems 1 December 2022; 4 (2): 135–155. doi:  
<https://doi.org/10.2166/bgs.2022.016>.

Tucker, Keira & Mageiros, Leonardos & Carstens, Alno & Bröcker, Ludwig & Archer, Edward & Smith, Katrin & Mourkas, Evangelos & Pascoe, Ben & Nel, Daan & Méric, Guillaume & Sheppard, Samuel & Kasprzyk-Hordern, Barbara & Botes, Marelize & Feil, Edward & **Wolfaardt, Gideon**. (2022). Spatiotemporal Investigation of Antibiotic Resistance in the Urban Water Cycle Influenced by Environmental and Anthropogenic Activity. Microbiology Spectrum. 10.1128/spectrum.02473-22.

Victoria Onyedibe, Farokh Laqa Kakar, Frances Okoye, **Elsayed Elbeshbishy**, **Rania Hamza**, Chapter 2 - Sources and occurrence of microplastics and nanoplastics in the environment, Editor(s): R.D. Tyagi, Ashok Pandey, Patrick Drogui, Bhoomika Yadav, Sridhar Pilli, Current Developments in Biotechnology and Bioengineering, Elsevier, 2023, Pages 33-58, ISBN 9780323999083, <https://doi.org/10.1016/B978-0-323-99908-3.00019-1>.

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